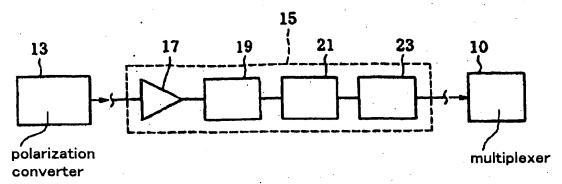
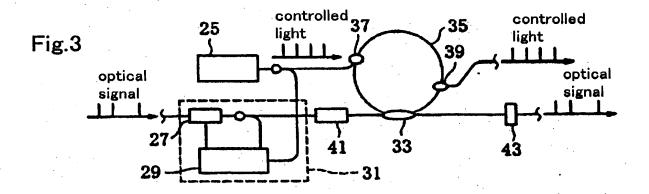


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Fig.2





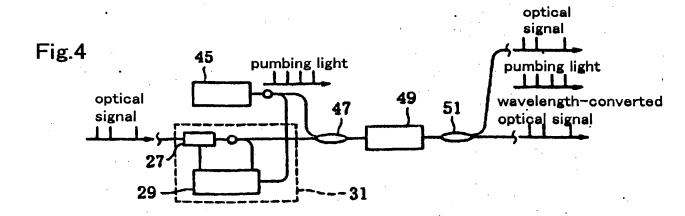
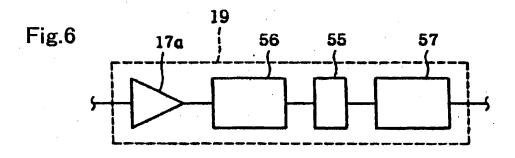


Fig.5 19 53 55



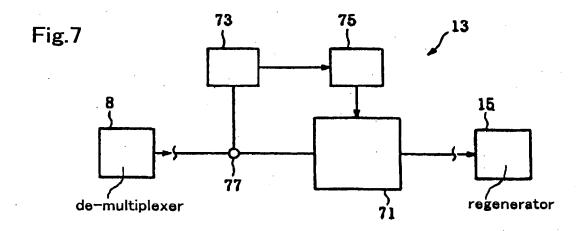
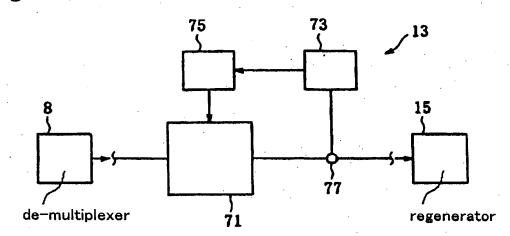
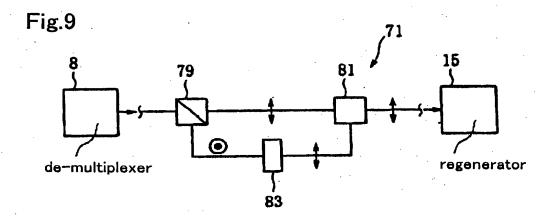


Fig.8





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Fig.10

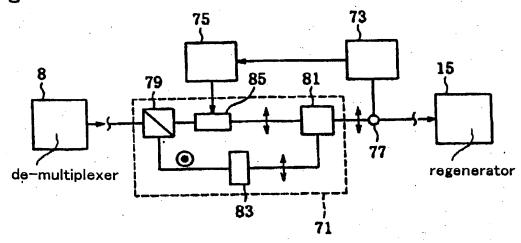
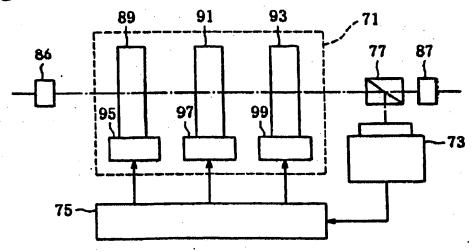
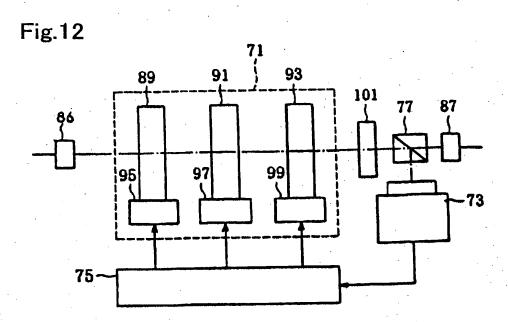
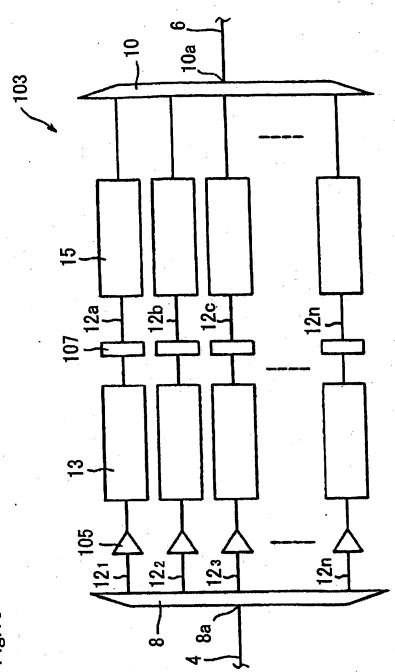


Fig.11

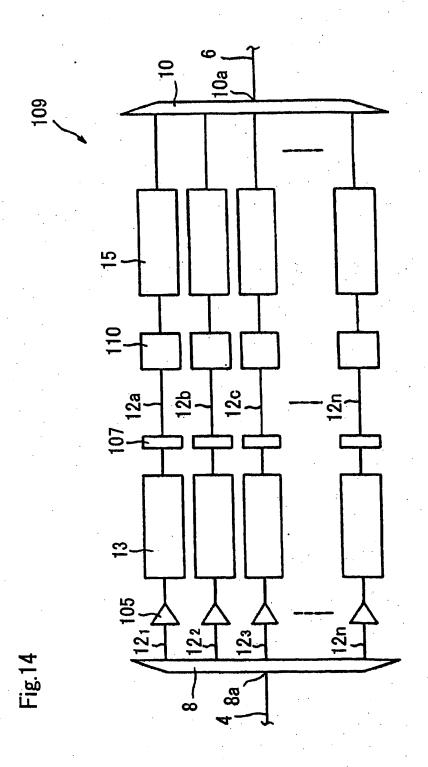






-lg. 13

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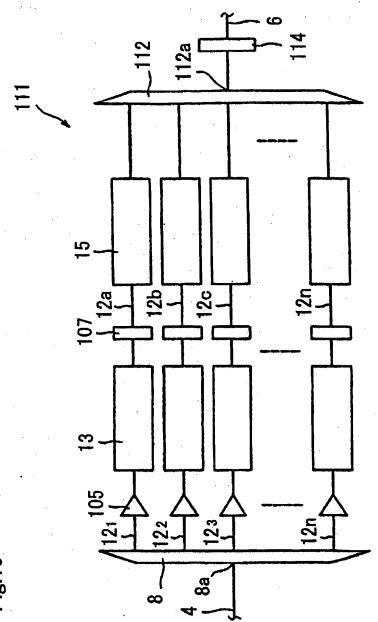
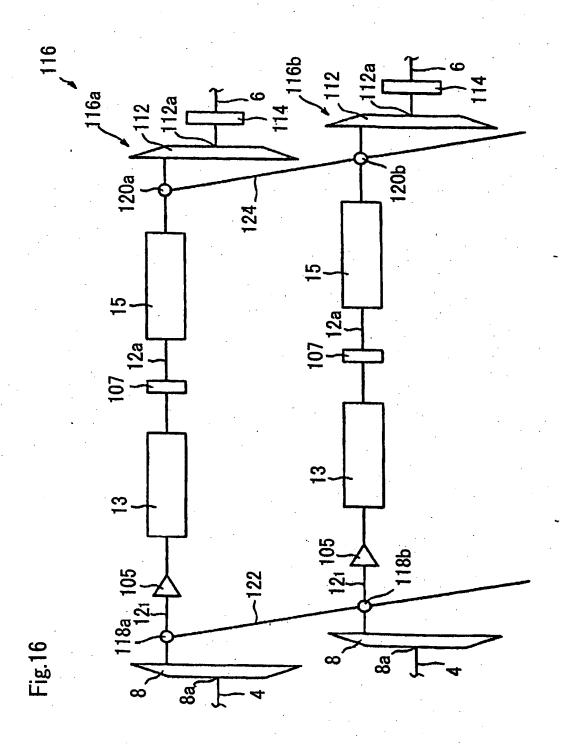


Fig. 15

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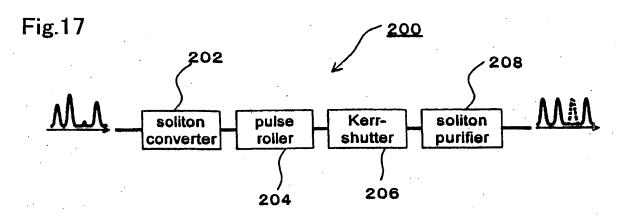


Fig.18

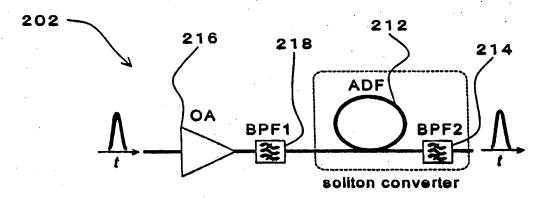


Fig.19

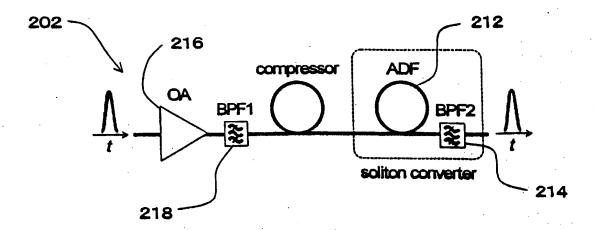


Fig.20A

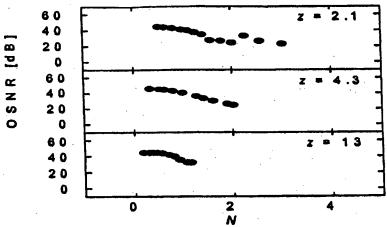


Fig.20B

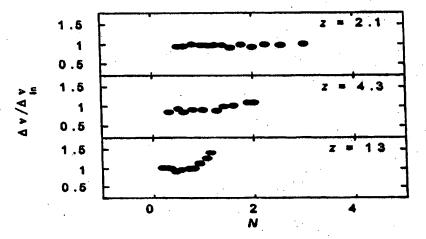


Fig.21

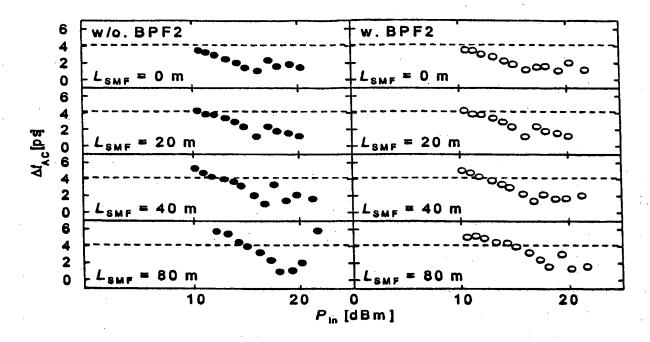


Fig.22

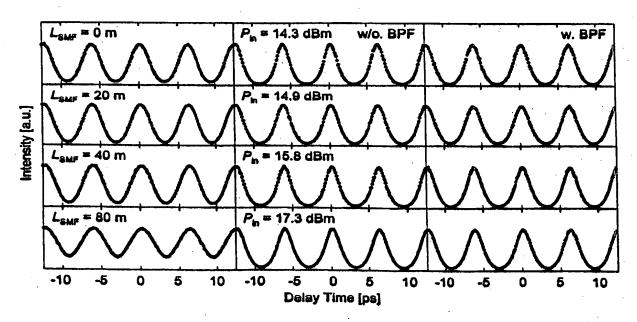


Fig.23

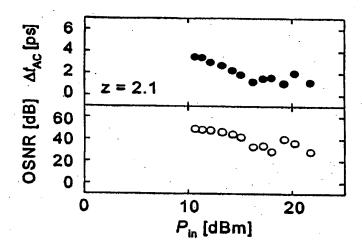


Fig.24

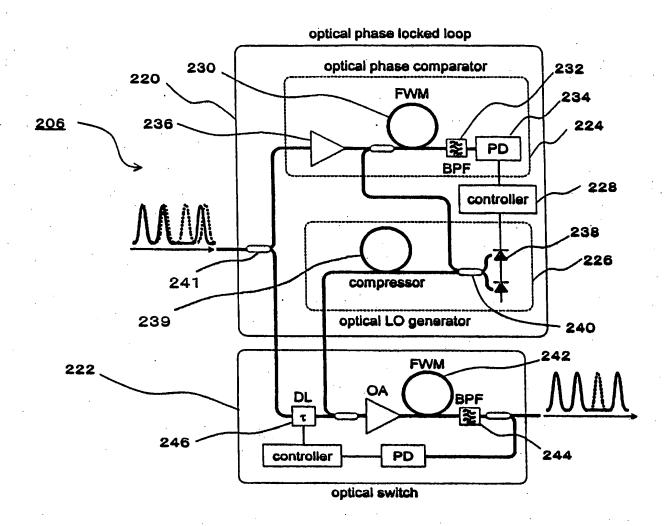


Fig.25A

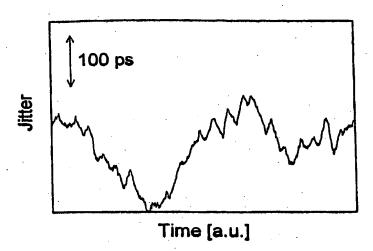
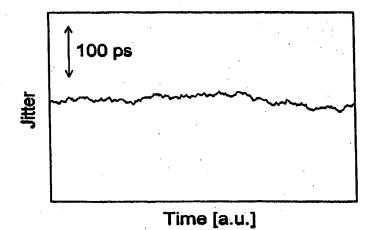


Fig.25B

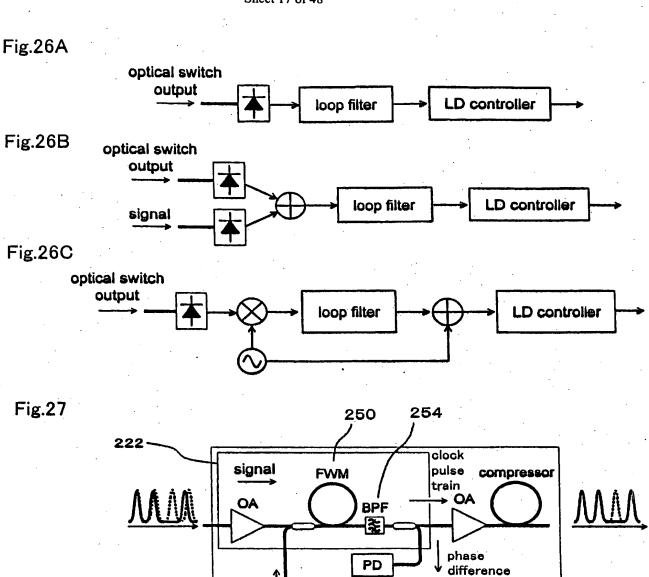


signal

controller

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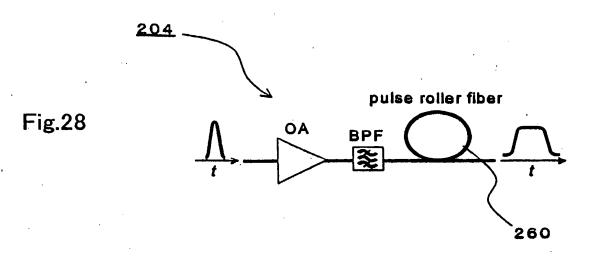


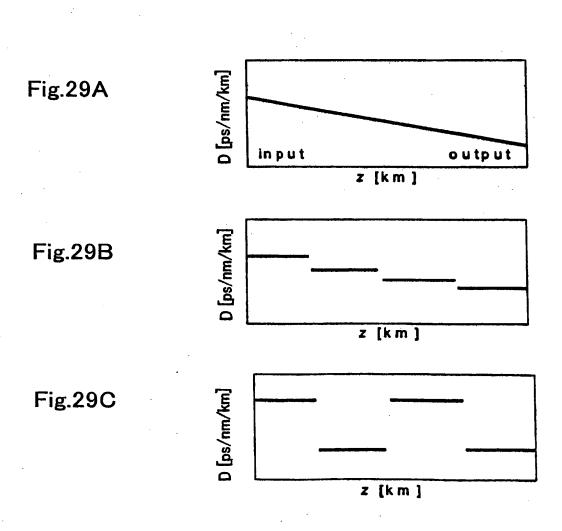
Optical

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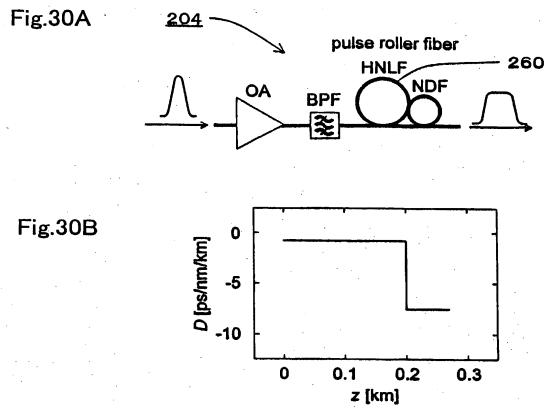


Fig.31

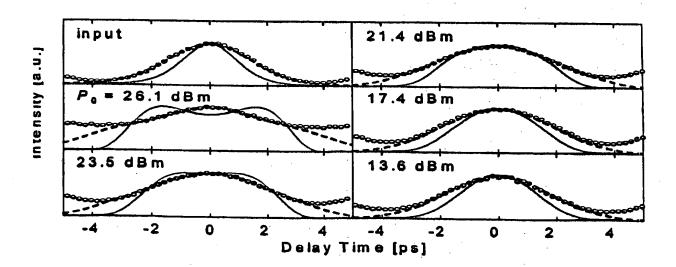
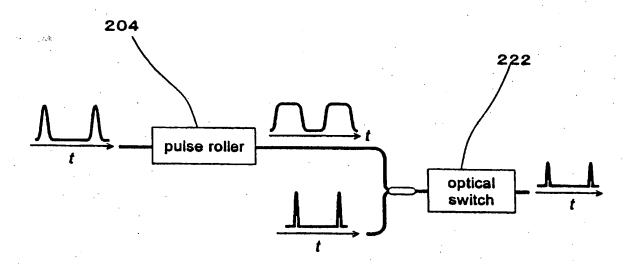


Fig.32



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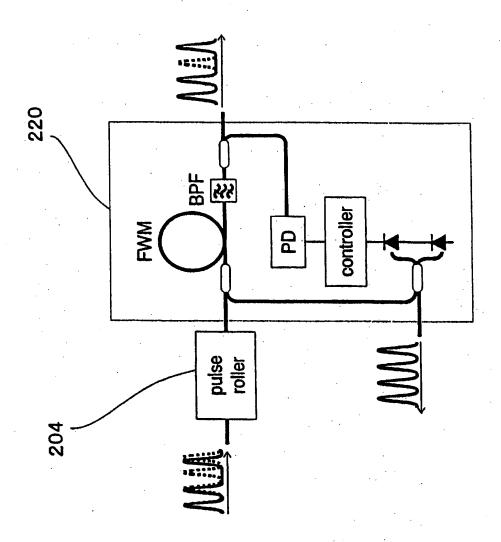


Fig.33

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Fig.34A

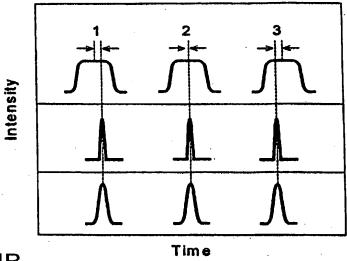
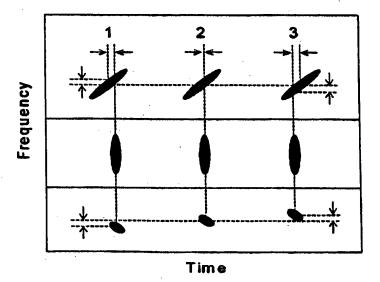


Fig.34B



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Fig.35A

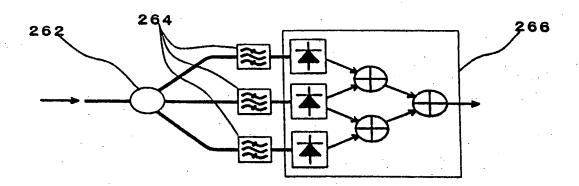
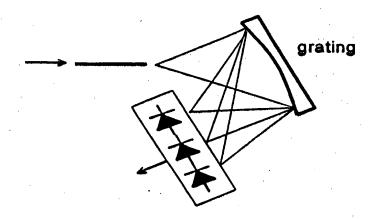
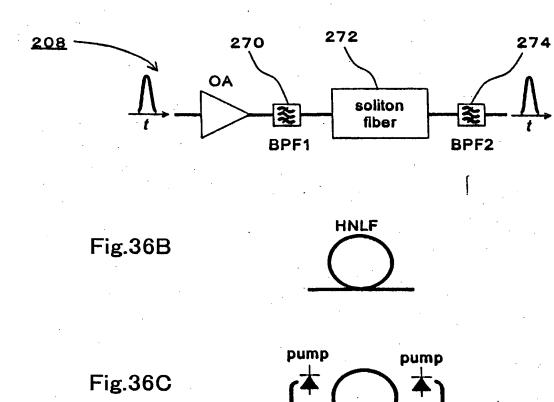


Fig.35B



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Fig.36A



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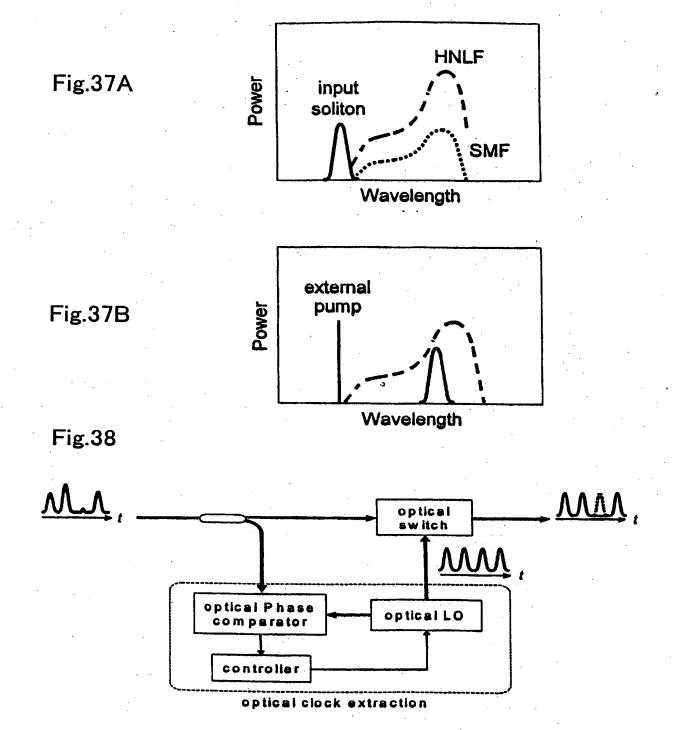


Fig.39A

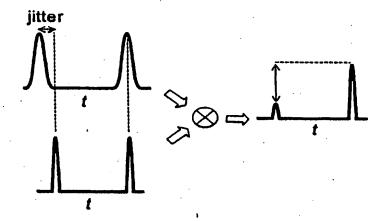
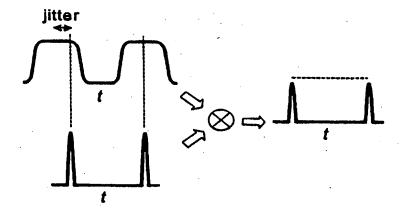


Fig.39B



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Fig.40A

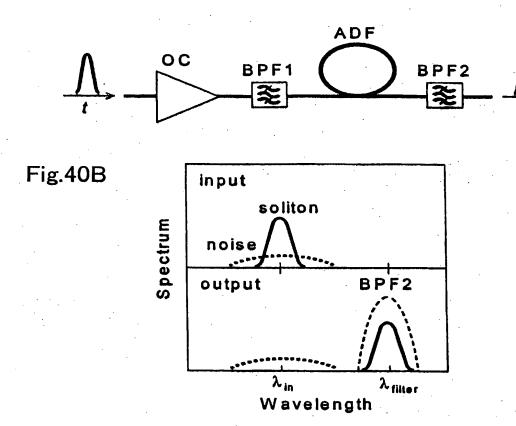
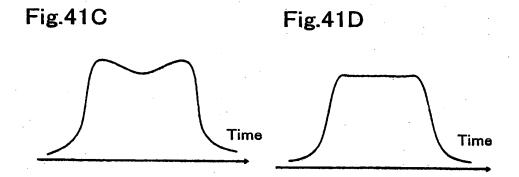
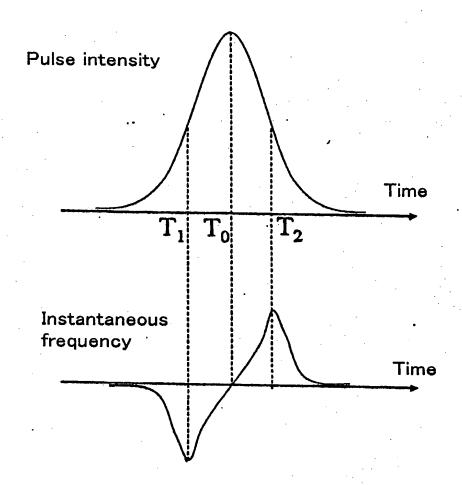


Fig.41A Fig.41B



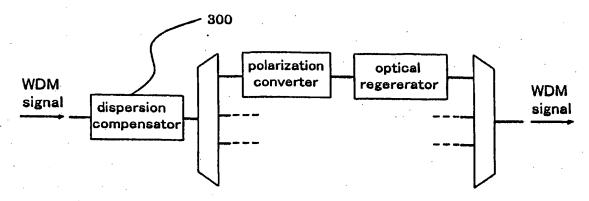
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Fig.42



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Fig.43



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Fig.44

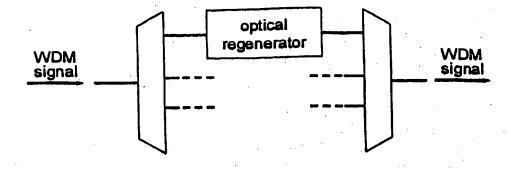


Fig.45

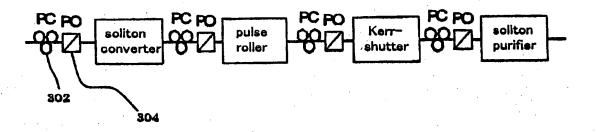


Fig.46

device A our device device B

Fig.47

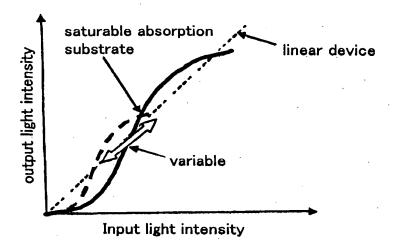
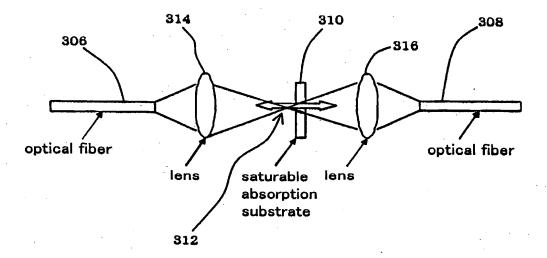


Fig.48



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Fig.49

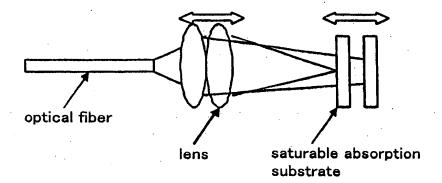


Fig.50

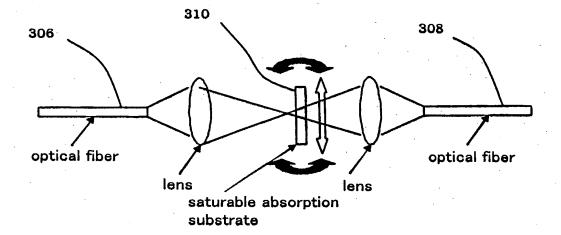


Fig.51A

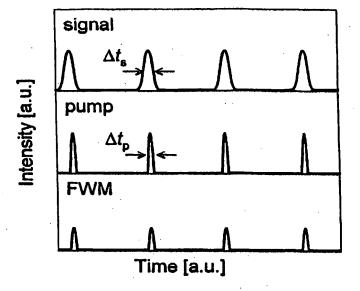
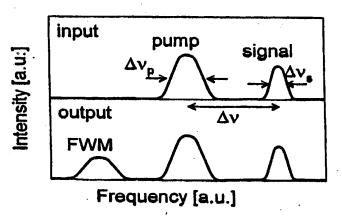


Fig.51B



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Fig.52

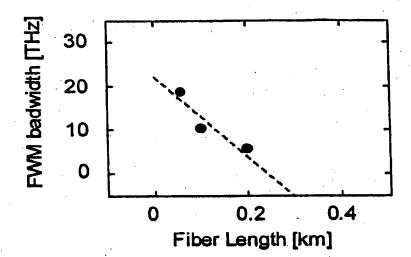


Fig.53

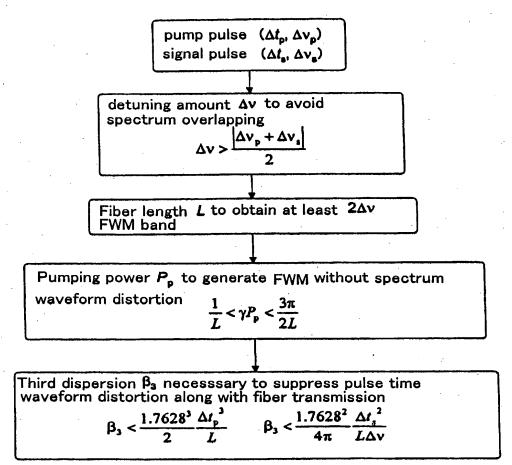


Fig.54

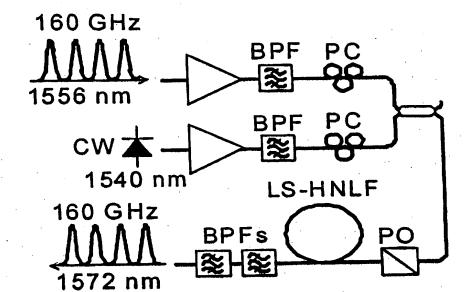


Fig.55

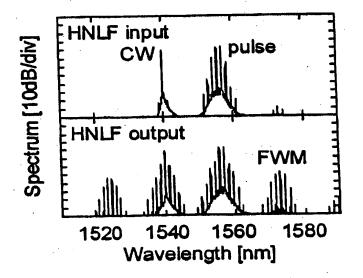


Fig.56

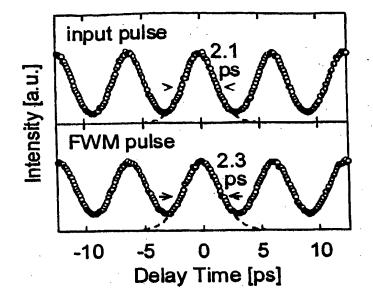
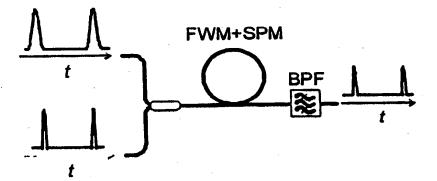


Fig.57



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Fig.58

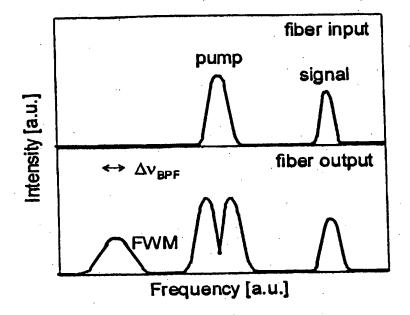
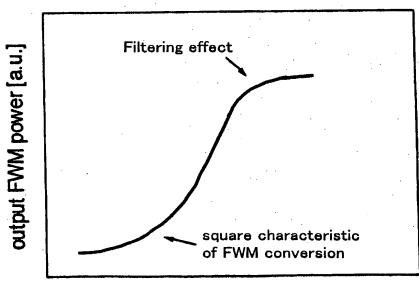


Fig.59



Input pump power [a.u.]

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Fig.60A

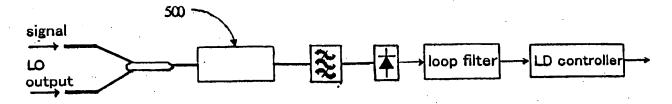


Fig.60B

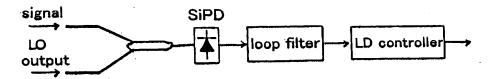
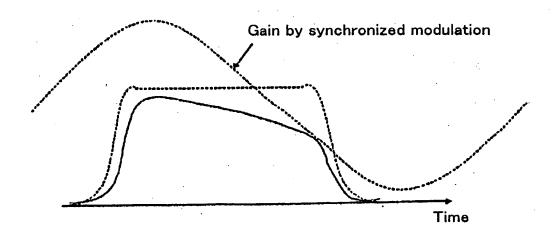
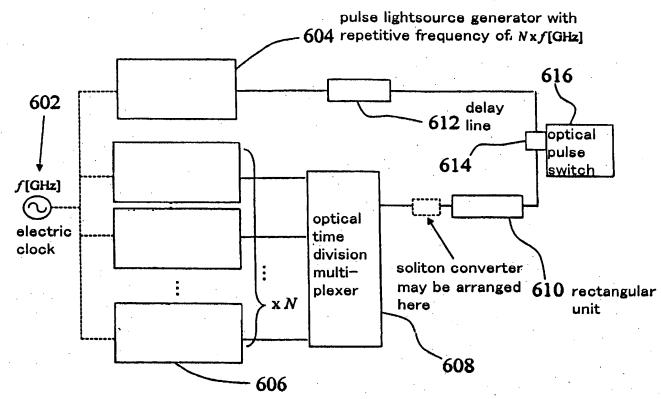


Fig.61



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Fig.62

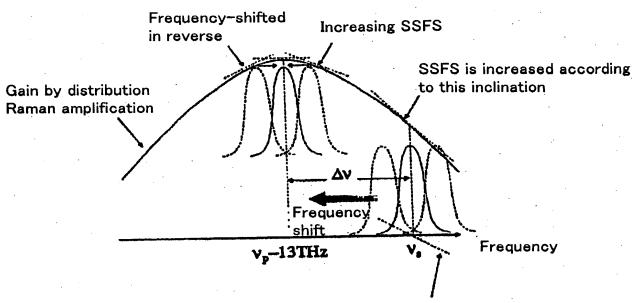


f[GHz] pulse light source generator

- + pulse compressor
- + flows data modulator

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Fig.63



Raman gain coefficient of the signal band SSFS occurs according to this slope.

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Fig.64

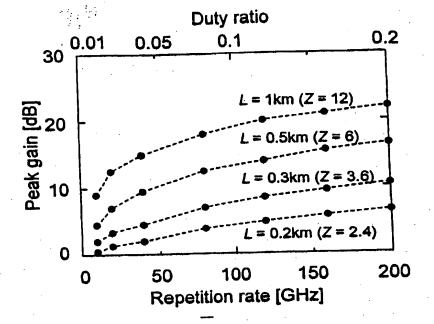
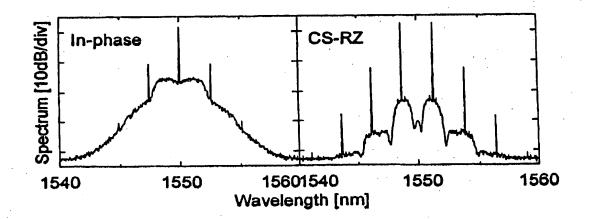
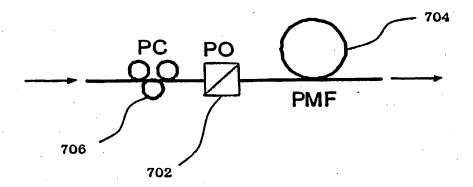


Fig.65

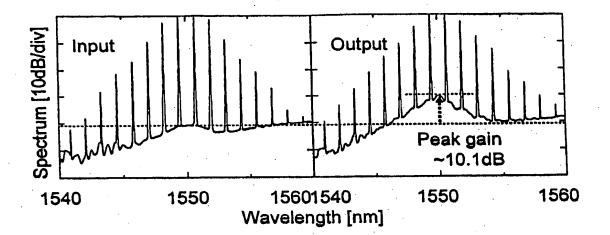


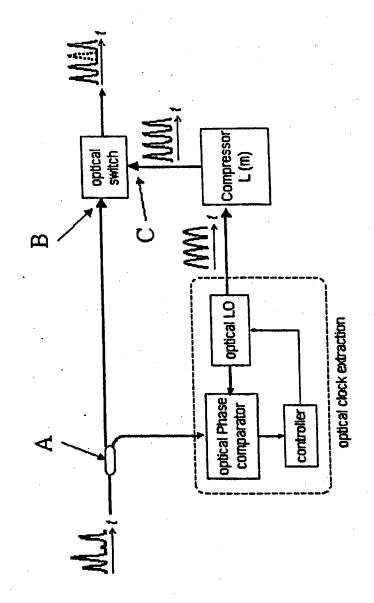




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Fig.67

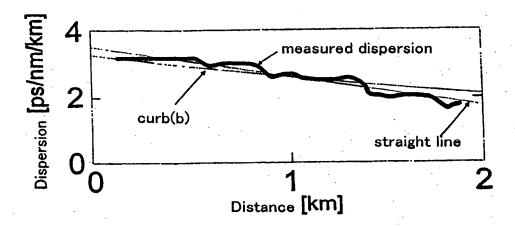




-ig.68

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Fig.69



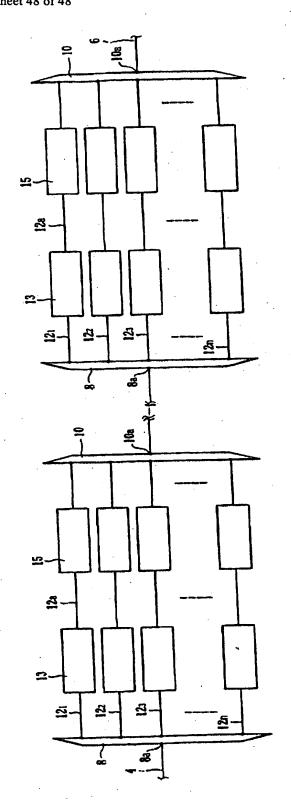


Fig. 70

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